NAME _____ CLASS _____ DATE _____

Practice

1.6 Introduction to Solving Equations

Solve each equation.

1. $4x + 4(2x - 1) = 20$ _____
2. $4x + 20 = 5(x + 3)$ _____
3. $5x + 15 = 10(x - 3)$ _____
4. $2x + 5 = 17$ _____
5. $3x - 4 = 4(3x - 19)$ _____
6. $3(2x - 4) = 3x - 5(x + 1)$ _____
7. $-0.4x - 6(3x - 2) = 48.8$ _____
8. $2(x + 3) = 5x + 15$ _____
9. $2x + 1 = 7 - 10x$ _____
10. $5x - 3 = 15 - 4x$ _____
11. $4x - 10 = 3(x + 2)$ _____
12. $6(x + 2) = 5x - 9$ _____
13. $5x + 10(4x + 3) = 15$ _____
14. $2(x + 3) = 5(x - 3)$ _____
15. $-4x + 7 = 5(x + 2)$ _____
16. $7x = 2(x - 3)$ _____
17. $5x - 15 = 4x + 3$ _____
18. $5(x + 0.5) = -1.5(x + 3x)$ _____
19. $2(2x + 2) + x = 3x - 4$ _____
20. $2x = 3(x + 2)$ _____
21. $2x + 4(3x + 6) = 12$ _____
22. $2x + 2(2x - 3) = -3$ _____

Solve each literal equation for the indicated variable.

23. $L \times W \times D = V$, for W _____
24. $C = 2\pi r$, for r _____
25. $V_1P_1 = V_2P_2$, for P_1 _____
26. $q = q_p \times D \times Q$, for q_p _____
27. $T = T_o - a(z - z_0)$, for a _____
28. $A = (a + b)h$, for h _____